



in collaboration with



Joint Minimally Invasive Surgery & 3rd Rwanda Biotechnology Conference

Kigali Convention Centre, Rwanda
26 - 27 September, 2019

Theme: Transforming Rwanda's Development by Investing in People's Skills

Sub themes:

- Minimally Invasive Surgery (MIS)
- Non-communicable diseases (NCD)
- Infectious diseases
- Medical biotechnology
- Genetics and Genomics
- Genetic Testing and diversity
- Molecular diagnostics of human, animal or plant diseases
- Biopharmaceuticals
- Bioproducts
- Industrial biotechnology,
- Bioprocess engineering,
- Protein engineering
- ... and much more



Sponsors



Website: www.rwandamisurgery.org

For additional details contact:

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Key dates

Deadline to submit Abstracts: September 09, 2019

Notices of Abstract Acceptance: September 12, 2019

Website; <https://www.rwandamisurgery.org/home>

Concept Note

Joint Minimally Invasive Surgery & Third Rwanda Biotechnology Conference

Theme: Transforming Rwanda's Development by Investing in People's Skills

- Dates:** 26-27 September, 2019 (2 days)
- Venue:** Kigali Convention Centre, Kigali City, Rwanda
- Organizer:**
- University of Rwanda
 - Ministry of Health, Government of Rwanda
- Partners:**
- ARES
 - PROMEGA
 - MEDTRONICS
 - EPPENDORF

RATIONALE

The University of Rwanda is hosting, from 26th to 27th of September 2019, in Kigali, Rwanda, a joint Minimally Invasive Surgery (MIS) and the 3rd Rwanda Biotechnology Conference.

Since 2017, more efforts have been going on aiming at strengthening minimally invasive surgery (MIS) in Rwanda. Thanks to ARES-PFS2018, a training project supported by the Belgium government, a postgraduate diploma in MIS will be one of the professional training offers of the University of Rwanda. To successfully implement this program, the partnership with Medtronic allows to equip a laboratory for training on nonhuman models comprising a simulation lab (simlab) and wetlab for MIS practising on animal model (pig) as well as MIS platforms in university teaching hospitals to treat Rwanda patients while training the candidates to MIS. With such a strategy, trainees will gain skills and hands-on experience before moving to clinical training phase (*Never practise for the first time on a patient*). A curriculum to train future MIS Trainers was developed and the implementation has been going on since January 2019. Ten selected Rwandan candidates, physicians (surgeon, gynaecologist and urologist) from CHUK,

King Faisal Hospital (KFH) and CHUB, have started the Training of Trainers (ToT) program which is going on at CHUK. In Parallel, paramedical experts from the hospital of the physicians are being trained to fit the MIS standard. This is of extreme importance for a sustainable implementation of MIS in Rwanda. These Rwandan candidates accompanied by the Cameroonian colleagues of the sister-MIS-project – Professional Master in Laparoscopy, supervised by experts from Belgium will unveil their so far acquired MIS skills during the preconference workshop which will take place in three teaching hospitals; CHUK, KFH and Rwanda Military Hospital (RMH) in Kanombe.

On the other hand, Biotechnology conference is held biennially in Rwanda and is sponsored through collaboration of the University of Rwanda and ARES (Academy of Research and High Learning, “Académie de Recherche et d’Enseignement Supérieur), Belgium, through its institutional support (Appui institutionnel, AI) program. The first was held on 24–25 September 2015, with theme “Applied biotechnology in Africa”, while the 2nd was jointly organized jointly with the 5th SASA International Conference on 4-6 October 2017 with a theme “translational science and Biotechnology advances in Africa”. This 2nd Rwanda Biotechnology Conference was preceded by a hands-on workshop that had as theme “Strategy to meet Biotechnology Training and Research Objectives in Rwanda”. This workshop took place at the Huye Biotechnology Laboratory Complex (HBLC) and was sponsored by PROMEGA and ARES. The participants were from different public institutions including UR (Lecturers and lab technicians), RAB (Lab technicians), NIRDA (researchers and Lab technicians) and CHUB (lab technicians). This achievement was very vibrant so that participants wished the activity be regularly reproduced during the subsequent Rwanda Biotechnology Conferences. The training was facilitated by experts from Belgians Universities and PROMEGA (Europe and United States of America). Based on this experience, a master's degree program in biotechnology is being developed to be implemented by 2020 at the University of Rwanda in collaboration with ARES-universities and in partnership with PROMEGA and the German biotechnology company EPPENDORF.

The theme for the 2019 conference, to be held on 26-27 September in Kigali, is “**Transforming Rwanda’s Development by Investing in People’s Skills**” with emphasis on Minimally Invasive Surgery and Biotechnology.

OBJECTIVES

The present conference seeks to promote investing in Africans' knowledge and skills in Minimally Invasive Surgery and Biotechnology.

TARGET AUDIENCE AND PARTICIPANTS

This conference is expected to bring together Ministers of Health in Africa, scientists, physicians, academic, researchers, government agencies, philanthropists and funding agencies dedicated to advancing the frontiers of MIS technology and biotechnology in Africa.

NUMBER OF EXPECTED PARTICIPANTS: 250

PRESENTATION TYPES

- Panel discussion
- Oral presentation
- Poster

TOPICS OF THE CONFERENCE

We welcome abstracts and posters in the scope of the Conference theme. Abstracts and Posters can be under one of the following, but not limited topics:

- Minimally Invasive Surgery (MIS)
- Non-communicable diseases (NCD)
- Infectious diseases
- Medical biotechnology
- Genetics and Genomics
- Genetic Testing and diversity
- Molecular diagnostics of human, animal or plant diseases
- Biopharmaceuticals
- Bioproducts
- Industrial biotechnology,
- Bioprocess engineering,
- Protein engineering

- Agriculture biotechnology
- Plant tissue culture
- Transgenic plant and crops,
- Food and feed safety testing
- Biotechnology techniques and Methods
- Environmental biotechnologies
- Bioremediation
- Microbial diversity

REGISTRATION RATES

- African Students: USD 100
- Non-African Students: USD 200
- African scientists: USD 300
- Non-African Scientists: USD 450
- Rwandan Students and Scientists: Free of Charge

IMPORTANT DATES

- **Deadline to submit an Abstract:** 9th September 2019
- **Notices of Abstract Acceptance:** 12th September 2019
- **Registration**

Registration Package	Online registration till 7 th September 2019	Onsite registration
African Students	USD 100	USD 150
Non-African Students	USD 200	USD 250
African scientists	USD 300	USD 350
Non-African Scientists	USD 400	USD 450

Register at: <https://www.rwandamisurgery.org/home>

Abstract and poster submission: abstractmis2019.biotech@gmail.com



ACADÉMIE
DE RECHERCHE ET
D'ENSEIGNEMENT
SUPÉRIEUR



Belgium
partner in development



UNIVERSITY of
RWANDA

Questions in submission or registration? Contact **Peace Buto** abstractmis2019.biotech@gmail.com

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Pre-conference events:

- Workshop on Minimally Invasive Surgery (MIS)
- Workshop on transversal applications of Biotechnology

PROGRAM SUMMARY

Joint Minimally Invasive Surgery & Third Rwanda Biotechnology Conference

Theme: Transforming Rwanda's Development by Investing in People's Skills

Dates: 26-27 September 2019

Venue: Kigali Convention Center

DAY 1: Thursday 26 th September 2019: Opening Ceremony		
8:00	Registration Open	
9:30 – 9:40	Remarks from the ARES Representative	
09:40 – 09:50	Key note speech & Invitation: On general theme by Prof Jacob Souopgui	
9:50 – 10:00	Welcome remarks from the UR Vice Chancellor	
10:00 – 10:10	Remarks and Official Opening by the Guest of Honour	
10:10 – 10:40 AM Group Photo & Coffee Break		
Panel Sessions		
10:40 – 11:40	Health Panel Discussion (MH1) Theme: Boosting and Sustaining Minimally Invasive Surgery (MIS) in Africa Key Address by Prof. Jacques Marescaux Panelists: Ministers of Health Prof. Daniel Etya'ale Prof. Jacques Marescaux Prof. Michelle Nisole Prof. David Waltregny Moderator: Dr King KAYONDO	Agriculture Panel Discussion (MH2) Theme: Role of Biotechnology in Food security in Africa & Ethical, safety and social issues Keynote Address by Prof. Bruno Delvaux Panelists: DG (RAB) Prof. Hervé Vanderschuren Dr. Nduwumuremyi Athanase Dr. Celestin Ukozehasi Dr. Svetlana Gaidashova Moderator: Dr. Rosita Yocgo
11:40: 12:30	Key Address by Dr. Ignace Gatare Theme: Leveraging the potential of biotechnology through partnership and synergy in Rwanda Plenary Panel discussion Theme: Public Private Partnership as a key component of efficient and sustainable biotechnology in Rwanda Panelists: PROMEGA, EPPENDORF, MEDTRONICS Moderator: Prof Jacob Souopgui	
12:30 – 1:30 LUNCH BREAK & NETWORKING		
DAY 1: Thursday 26 SEPTEMBER 2019: Concurrent Invited sessions		
Concurrent Invited sessions		Concurrent Invited sessions
Session I : Minimally Invasive Surgery (MIS) (MH1) 13:30 – 13:55: Keynote address N° 1 by Prof. Michelle Nisole Moderators: Prof. Léon Mutesa, Dr. Basile Essola		Session II: Agriculture & Animal Sciences (MH2) 13:30 – 13:55: Keynote address N°2 by Prof. Jean-Paul Dehoux Moderators: Dr. Espérance Munganyinka, Prof. François-Xavier Naramabuye
13:55 – 14:05: Oral presentation		13:55 – 14:05: Oral presentation
14:05 – 14:20: Oral presentation		14:05 – 14:20: Oral presentation

14:20 – 14:35: Oral presentation	14:20 – 14:35: Oral presentation
14:35 – 14:50: Oral presentation	14:35 – 14:50: Oral presentation
14:50 – 15:05: Oral presentation	14:50 – 15:05: Oral presentation
15:05 – 15:20: Oral presentation	15:05 – 15:20: Oral presentation
15:20– 15:50 Coffee Break MINISTERS VISIT OF DIFFERENT SITES AND DEBRIEFING (16H – 18H)	
Concurrent Invited sessions	Concurrent Invited sessions
Session III : Non-communicable diseases (MH1) 15:50 – 16:15: Keynote address N° 3 by Prof. Yosr Haffani Moderators: Prof. Stefan Jansen, Ella Larissa	Session IV: Biopharmaceuticals and Bioproducts (MH2) 15:50 – 16:15: Keynote address N°5 by Prof. Michel Frederich Moderators: Dr. Raymond Muganga, Prof. Egide Kayitare
16:15 – 16:30: Oral presentation	16:15 – 16:30: Oral presentation
16:30 – 16:45: Oral presentation	16:30 – 16:45: Oral presentation
16:45 – 17:10 Keynote address N° 4 by Prof. Rokhaya Ndiaye Diallo	16:45 – 17:00: Oral presentation
17:10– 17:25: Oral presentation	17:00– 17:15: Oral presentation
17:25 – 17:45: Oral presentation	17:15 – 17:30: Oral presentation
17:45 – 18: 00: Oral presentation	17:30 – 17:45: Oral presentation
18:00 PM – 18:30 PM: POSTERs & STAND EXHIBITION	
DAY 2: Friday 27 SEPTEMBER 2019: Plenary and Concurrent Invited sessions	
8:30 – 8:55: Plenary session : Keynote address N°6 by Prof. Léon Mutesa Topic: Non-communicable diseases, Genomics and Precision Medicine Moderator: Dr. Innocent Hahirwa	
Venue: MH1	
Concurrent Invited sessions	Concurrent Invited sessions
Session V: Genetics and Genomics 09:00-09:25: Keynote address N°7 by Dr Henk Honing Moderators: Dr. Annette Uwineza, Dr. Liliane Mukaremera	Session VI: Advances in Biotechnology techniques and their Appropriateness to Africa 08:55-09:20: Keynote address N°8 by Dr. Bhuvnesh Agrawal Moderators: Dr. Dieudonne Mutangana, Dr. Claire d'Andre Hirwa
09:25 – 09:40: Oral Presentation	09:25 – 09:40: Oral Presentation
09:40 –09:55: Oral Presentation	09:40 – 9:55: Oral Presentation
09:55 – 10:10: Oral Presentation	09:55 – 10:10: Oral Presentation
10:10 – 10:25: Oral Presentation	10:10 – 10:25: Oral Presentation
10:30 –10:55 Coffee Break	
11:00 – 11:25: Plenary session; Keynote address N° 9 by Prof. Hervé Vanderschuren Topic: Embracing modern Biotechnology for sustainable agriculture and food security in Africa Moderator: Prof. Anastase Kimonyo	
Concurrent Invited sessions	Concurrent Invited sessions
Session VII: Infectious diseases	Session VIII: Environmental Biotechnology and Biodiversity

11:25-11:50: Keynote address N°10 by Prof. Luc Vanhamme	11:25-11:50: Keynote address N°11 by Prof .Beth Kaplin
Moderators: Jean-Paul Dehoux, Dr. Nadine Rujeni	Moderators: Prof. Antoine Nsabimana, Emmanuel Hakizimana
11:50 – 12:05: Oral Presentation	11:55 – 12:05: Oral Presentation
12:05 – 12:20: Oral Presentation	12:05 – 12:20: Oral Presentation
12:20 – 12:35: Oral Presentation	12:20 – 12:35: Oral Presentation
12:35 – 12:50: Oral Presentation	12:35 – 12:50: Oral Presentation
12:50– 13:05: Oral Presentation	12:50– 13:05: Oral Presentation
13 :00 – 14 :00 P Lunch Break	
14:00 – 14:25: Plenary session : Keynote address No 12 by Dr. Bhuvnesh Agrawal	
Topic: Innovation and entrepreneurship in Biotechnology	
Moderators: Jacob Souopgui	
14:30 PM – 3:00 PM: POSTERS & STAND EXHIBITION	
15:00 – 17:30 : CLOSING CEREMONIES	

Call for Abstracts

The University of Rwanda in Collaboration with ARES (the Belgian Academy of Research and High Learning) and the Ministry of Health, Government of Rwanda is hosting a “**Joint Minimally Invasive Surgery (MIS) and the 3rd Rwanda Biotechnology Conference**” from 26th to 27th September 2019, in Kigali, Rwanda.

We are accepting abstracts under one of the following; but not limited topics: Minimally Invasive Surgery (MIS); Non-communicable diseases (NCD); Infectious diseases; Medical biotechnology; Genetics and Genomics; Genetic Testing and diversity; Molecular diagnostics of human, animal or plant diseases; Biopharmaceuticals; Bioproducts; Industrial biotechnology; Bioprocess engineering; Protein engineering; Agriculture biotechnology; Plant tissue culture; Transgenic plant and crops; Food and feed safety testing; Biotechnology techniques and Methods; Environmental biotechnologies; Bioremediation; Microbial diversity.

Abstract Submission guideline

To present at the Minimally Invasive Surgery and 3rd Rwanda Biotechnology Conference in Kigali Rwanda, abstracts have to be submitted first and peer-reviewed. Only accepted abstracts for presentation will be announced on the website.

Submission: Abstract are submitted through email at abstractmis2019.biotech@gmail.com

Abstract Submission guideline

- Abstract should be submitted in English.
- The abstract should be prepared as follows: Title; Presenting Author's Names and degree, Authors, Affiliations; address where the actual work was conducted.
- Author names should be listed in the following order: last name, first initial.
- Presenter should provide a functional E-mail address through which she/he can be reached.
- Abstract should be a single paragraph.
- The abstract should not exceed 300 words with brief introduction, objectives, materials and methods, results, and main conclusions. References, tables, or figures should not be included in the abstract.
- The abstract should be written in font of 12 pt times new roman, 1.5-spaced, 1" margins.
- Provide a list of 3 to 5 key words.

Deadline to submit an Abstract: September 09, 2019

Notices of Abstract Acceptance: September 12, 2019

Contact: Peace Buto abstractmis2019.biotech@gmail.com; Tel: +250 788 867 361